

WHAT IS CLAIMED IS:

1. A method of locating multiple passive electronic marker types; said method comprising:
 - 5 transmitting a signal;
 - receiving a signal from a marker; and
 - determining a marker type based upon said receiving.
2. The method as claimed in claim 1, wherein said 10 determining a marker type includes:
 - determining a frequency distribution of a received signal.
3. The method as claimed in claim 2, wherein said 15 determining a frequency distribution includes:
 - passing the received signal through a plurality of parallel narrow-band filters.
4. The method as claimed in claim 2, wherein said 20 determining a frequency distribution includes:
 - performing a Fourier Transform on the received signal.
5. The method as claimed in claim 2, wherein said 25 determining a frequency distribution includes:
 - performing synchronous detection on the received signal.
6. The method as claimed in claim 5, wherein said 30 performing synchronous detection comprises:

sequentially processing the received signal with in-phase and phase-shifted reference frequencies.

7. The method as claimed in claim 1, wherein said 5 transmitting comprises transmitting a signal at multiple frequencies.

8. The method as claimed in claim 1, further comprising 10 displaying the identity of a located marker responsive to said determining.

9. The method as claimed in claim 1, further comprising displaying a received signal strength for all marker types.

15 10. A method of locating multiple passive electronic marker types; said method comprising:

sequentially transmitting and receiving at each of a plurality of marker type frequencies; and

20 determining an amplitude value for each marker type frequency received responsive to said sequentially transmitting and receiving.

25 11. The method as claimed in claim 10, further comprising displaying a marker type associated with the greatest amplitude value responsive to said determining.

12. The method as claimed in claim 10, including displaying an amplitude value for each marker type.

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